

January Open-Ended Questions

Name _____

Math for Standards

SHOW AND EXPLAIN ALL WORK!!!

Date _____

For each open-ended question, make sure that you solve and fully explain how you solved as well as how you know your method is correct.

1. A garden is in the shape of a right triangle. The hypotenuse is 13ft and the longer leg is 12 ft. Find the perimeter and area of the garden. (Hint: Draw a picture)

2. Most pets age at a different rate than their human companions. For example, a 3 year old dog is often considered to be 21 in human years. Assume that the age of a dog varies directly as its equivalent age in human years.

Write an equation for the direct variation situation listed above. What is the human-year age of a dog that is 6 years old?